



Attorney Docket No. 60399 (71699)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Golay, et al. Confirmation: Not yet assigned  
U.S.S.N.: 10/729,360 Art Unit: Not yet assigned  
FILED: December 4, 2003 Examiner: Not yet assigned  
FOR: METHODS FOR MULTIPLE ACQUISITIONS WITH GLOBAL  
INVERSION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service "as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 18, 2004.

By: Helen Murray Tarbi

Helen Murray Tarbi

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- a. **X** Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

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- b. ☐ Each of the patents, publications or other information listed on the attached PTO-1449 was previously cited by or submitted to the USPTO in connection with U.S.S.N.: \_\_\_\_\_, to which the subject application claims the benefit of the earlier filing date. As such, a copy of each is not included herewith pursuant to 37 C.F.R. § 1.98(d).

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

- a. ☒ Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
- b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows (following also previously cited by or submitted to the USPTO in connection with U.S.S.N.):
- c. ☐ English translation (partial) for reference(s)
- d. ☐ English abstract for reference
- e. ☐ English translation of search report/ official communication.
- f. ☐ Copy of PCT/EPO Search Report.
- g. ☐ The following additional information is provided for the Examiner's consideration:
- h. ☐ Copy of EPO Search Report.
- i. ☐ Copy of PCT Search Report.
- j. ☐ Copy of Official Communication from the \_\_\_\_\_ Patent Office.
- k. ☐ English translation of search report/ official communication.

**FEES**

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)

(check one box)

- a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.

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- b. \_\_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. **X** before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):  
(check one box)

- a. \_\_\_\_\_ before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).
- b. \_\_\_\_\_ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- or
- c. \_\_\_\_\_ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

- a. \_\_\_\_\_ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. \_\_\_\_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. \_\_\_\_\_ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the

undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VII. FEE PAYMENT (check one)

- a. \_\_\_\_\_ Enclosed please find a check in the amount of \$180.00 for the above-indicated fee.
- b. \_\_\_\_\_ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee.
- c. ☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,



William J. Daley, Jr. (Reg. No. 35,487)  
EDWARDS & ANGELL, LLP  
P.O. Box 55874  
Boston, MA 02205  
Tel: (617) 439-4444

Date: March 18, 2004

Customer No: 21,874



FORM PTO-1449

DOCKET NO:

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Application No.:

10/729,360

INFORMATION DISCLOSURE  
STATEMENT

APPLICANT: Golay, et al.

FILING DATE:

December 4, 2003

ART UNIT

Not yet assigned

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,689,563	8/25/1987	Bottomley et al.			
	A2	4,968,937	11/6/1990	Akgun			
	A3	5,990,681	11/23/1999	Richard et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
							Abstract

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	C1	Alsop, et al., "Background Suppressed 3D RARE Arterial Spin Labeled Perfusion MRI", Departments of Radiology and Neurology, University of Pennsylvania, Philadelphia, PA.
	C2	Lu, et al., "Functional Magnetic Resonance Imaging Based on Changes in Vascular Space Occupancy", Magnetic Resonance in Medicine 50:263-274 (2003), pp. 263-274.
	C3	Duyn, et al., "High-Sensitivity Single-Shot Perfusion-Weighted fMRI", Magnetic Resonance in Medicine 46:88-94 (2001), pp. 88-94.
	C4	Song, et al., "Multislice Double Inversion Pulse Sequence for Efficient Black-Blood MRI", Magnetic Resonance in Medicine 47:616-620 (2002), pp. 616-620..
	C5	Ye, et al., "Noise Reduction in 3D Perfusion Imaging by Attenuating the Static Signal in Arterial Spin Tagging (ASSIST)", Magnetic Resonance in Medicine 44:92-100 (2000), pp.92-100.
	C6	Blamire, et al., "Spin Echo Entrapped Perfusion Image (SEEPAGE). A Nonsubtraction Method for Direct Imaging of Perfusion", Magnetic Resonance in Medicine 43:701-704 (2000), pp.701-704.

EXAMINER:

DATE: